

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949301

Luminaire Tested: **GALN-SB4A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12443 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

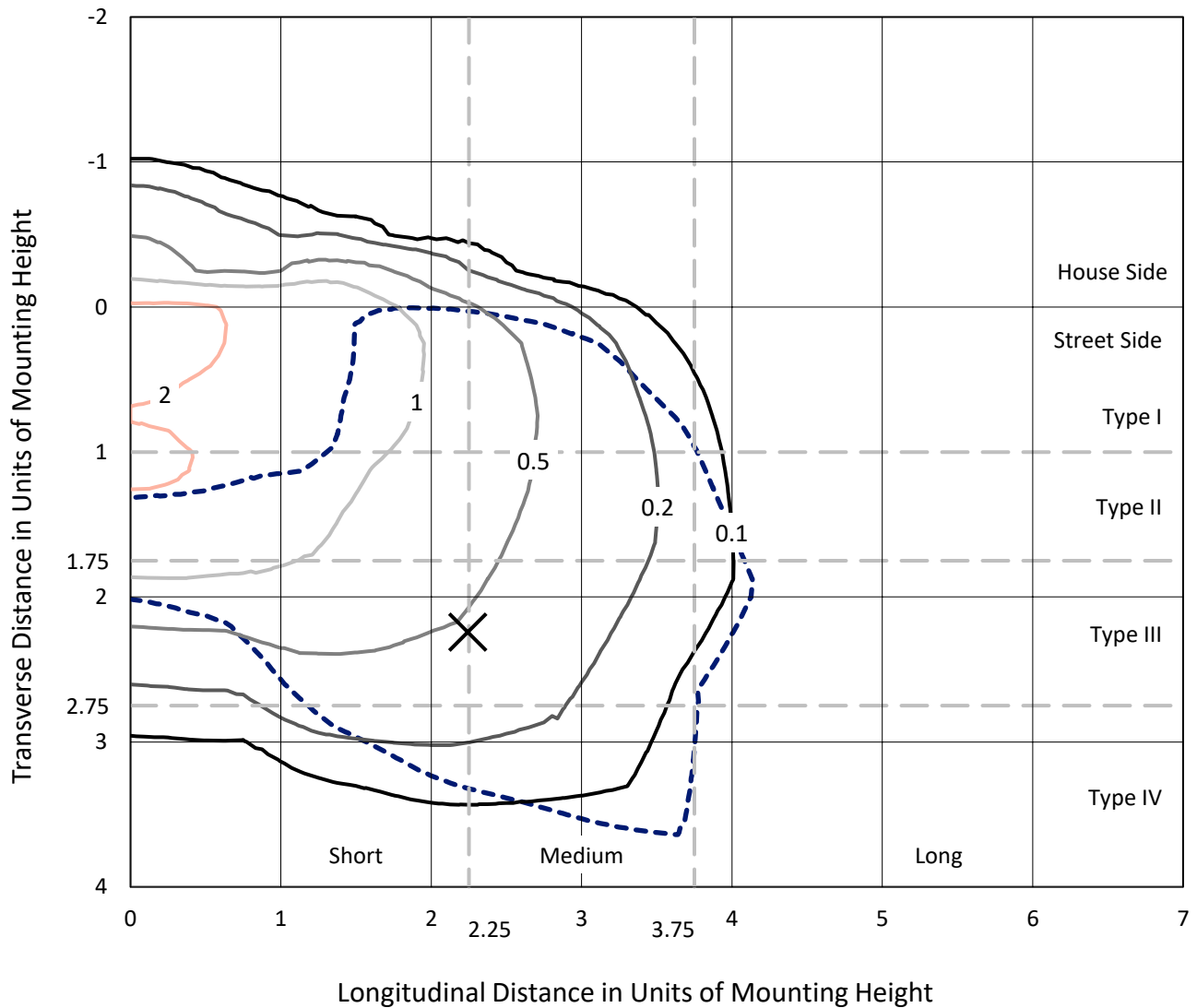
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949301
 CATALOG NUMBER: GALN-SB4A-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

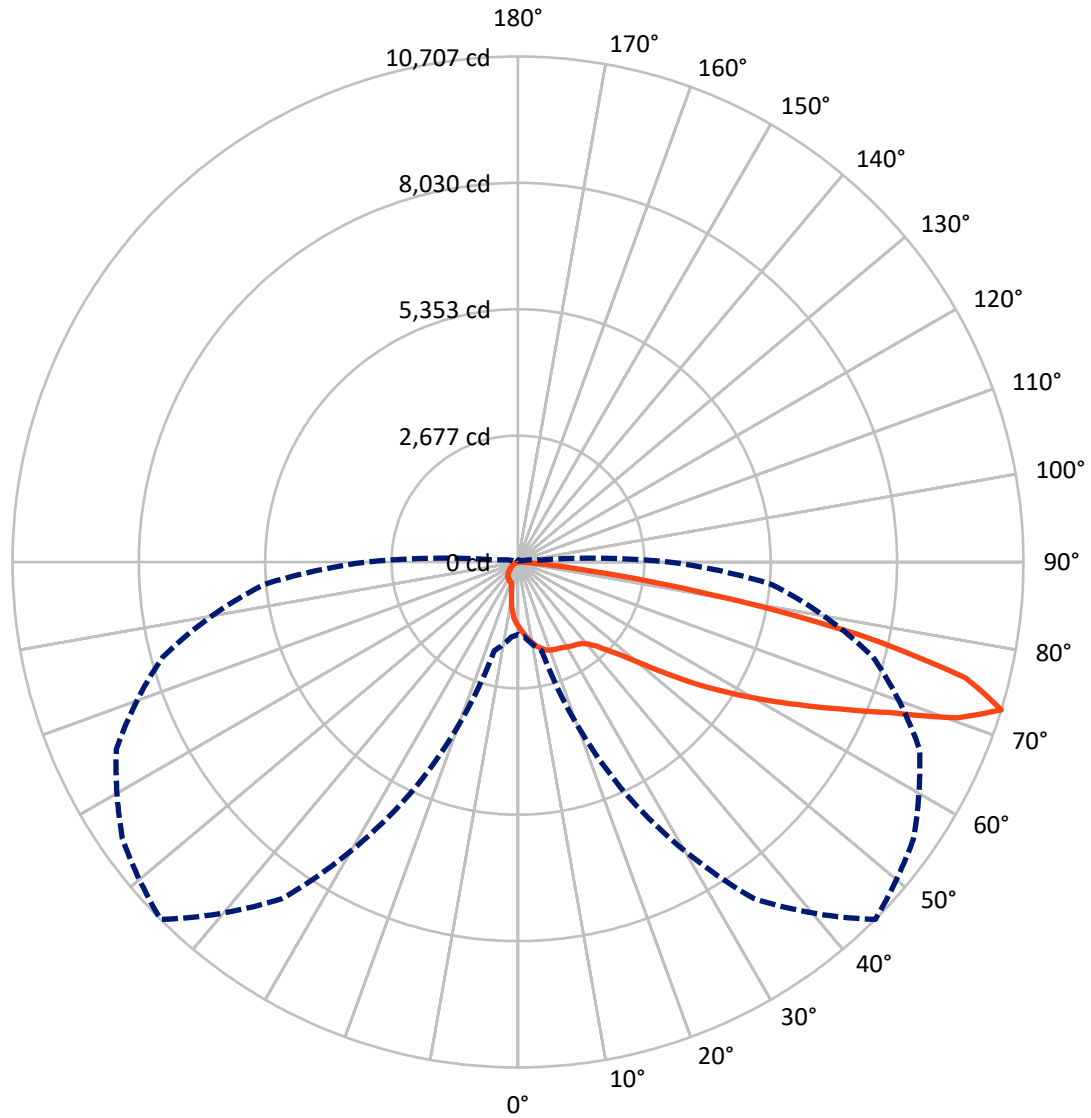
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

REPORT NUMBER: P949301
CATALOG NUMBER: GALN-SB4A-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P949301
 CATALOG NUMBER: GALN-SB4A-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.4	0.0	1307.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11135.6	0.0	11135.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	12443.0	0.0	12443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.0
10°-20°	375.4	3.0
20°-30°	616.4	5.0
30°-40°	874.2	7.0
40°-50°	1445.0	11.6
50°-60°	2595.8	20.9
60°-70°	3604.3	29.0
70°-80°	2614.5	21.0
80°-90°	189.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12443.0	100.0
0°-180°	12443.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949301

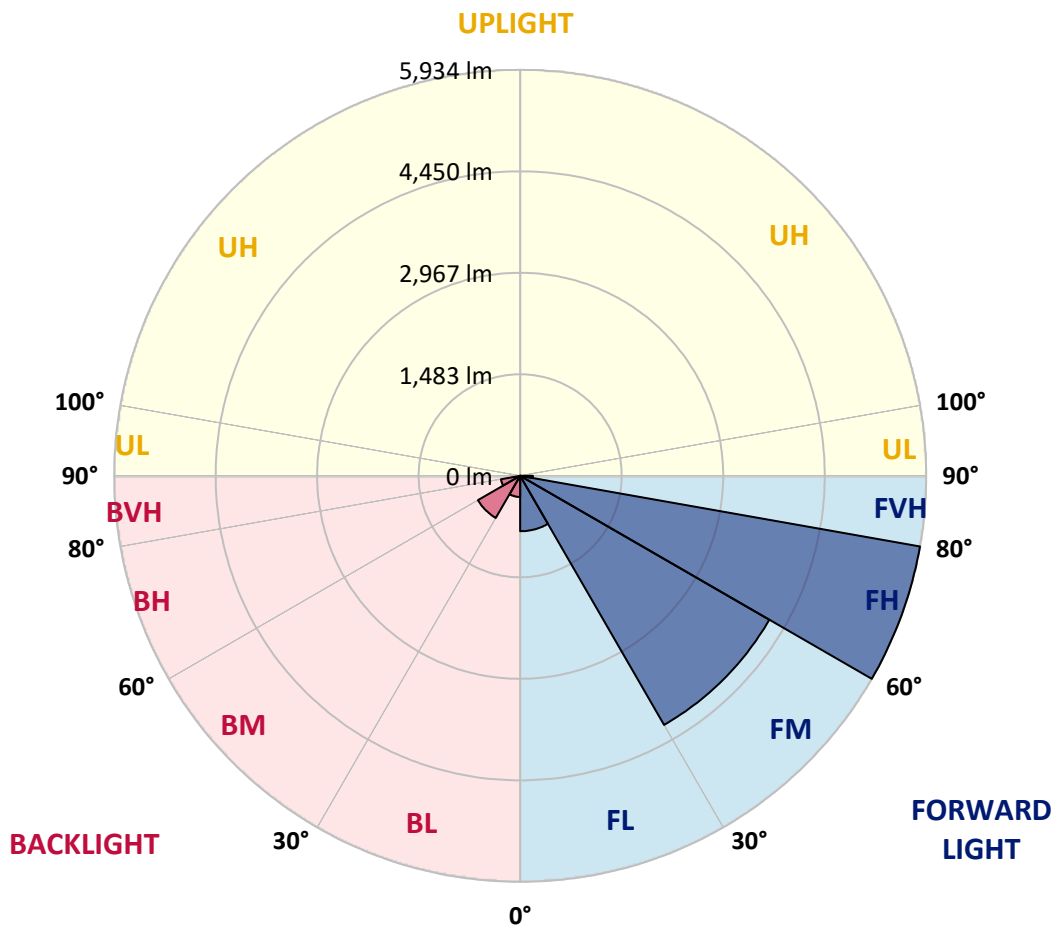
CATALOG NUMBER: GALN-SB4A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.5	6.5			
FM (30°-60°)	4203.9	33.8			
FH (60°-80°)	5933.7	47.7			G3/7500
FVH (80°-90°)	187.4	1.5			G2/225
BL (0°-30°)	309.7	2.5	B1/500		
BM (30°-60°)	711.0	5.7	B1/1000		
BH (60°-80°)	285.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P949301
 CATALOG NUMBER: GALN-SB4A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2
2.5°	1488.9	1491.4	1489.7	1479.5	1462.5	1453.2	1448.1	1431.1	1420.1	1400.5
5°	1625.6	1635.8	1629.8	1609.5	1577.2	1554.3	1547.5	1512.6	1481.2	1444.7
7.5°	1770.8	1775.9	1764.9	1738.6	1695.2	1656.2	1650.2	1601.8	1551.7	1495.7
10°	1896.5	1902.5	1885.5	1847.3	1798.0	1749.6	1741.1	1687.6	1628.1	1559.3
12.5°	2001.8	2007.8	1985.7	1939.8	1885.5	1835.4	1826.9	1770.8	1705.4	1629.0
15°	2081.7	2092.7	2063.0	2013.7	1955.1	1905.0	1900.8	1845.6	1781.9	1696.9
17.5°	2128.4	2139.4	2111.4	2052.0	2001.8	1959.4	1954.3	1908.4	1849.0	1767.4
20°	2136.0	2146.2	2116.5	2064.7	2023.1	1989.1	1986.6	1953.4	1910.1	1832.0
22.5°	2113.1	2125.8	2098.7	2057.1	2028.2	2010.3	2006.9	1988.3	1963.6	1897.4
25°	2089.3	2099.5	2079.1	2042.6	2027.3	2025.6	2028.2	2024.8	2019.7	1963.6
27.5°	2087.6	2098.7	2075.7	2040.9	2032.4	2050.3	2052.8	2068.9	2073.2	2023.9
30°	2102.1	2109.7	2087.6	2051.1	2046.9	2087.6	2088.5	2117.4	2124.1	2074.9
32.5°	2133.5	2142.0	2119.9	2066.4	2060.4	2117.4	2119.9	2158.1	2169.2	2129.2
35°	2207.4	2217.6	2192.1	2108.9	2087.6	2145.4	2153.0	2198.0	2220.1	2187.0
37.5°	2391.7	2362.0	2327.1	2194.6	2149.6	2189.5	2202.3	2254.9	2294.0	2255.8
40°	2849.5	2756.0	2647.3	2340.7	2258.3	2283.8	2294.0	2346.7	2400.2	2362.8
42.5°	3536.6	3426.2	3251.2	2677.1	2422.3	2435.0	2442.6	2488.5	2564.1	2534.4
45°	4148.9	4109.0	3930.6	3251.2	2728.9	2666.0	2675.4	2699.1	2810.4	2799.4
47.5°	4619.4	4596.5	4458.9	3910.3	3246.9	2948.8	2975.2	2986.2	3146.7	3185.8
50°	4981.3	4972.8	4849.6	4496.3	3923.9	3365.9	3375.2	3351.4	3591.8	3688.6
52.5°	5322.7	5351.6	5260.7	5040.7	4646.6	3912.0	3910.3	3798.2	4122.6	4268.7
55°	5631.0	5641.2	5650.5	5596.2	5373.6	4533.7	4517.5	4334.1	4738.4	4889.5
57.5°	5920.6	5924.8	6008.1	6119.3	6130.4	5201.2	5171.5	4951.5	5411.0	5518.9
60°	6115.1	6134.6	6310.4	6619.6	6754.6	5890.0	5873.9	5649.7	6095.6	6145.7
62.5°	5834.8	5953.7	6397.1	7010.3	7344.1	6653.6	6645.9	6435.3	6815.8	6775.0
65°	4723.1	4924.4	5704.0	7274.4	7922.4	7506.3	7517.3	7293.1	7555.5	7423.0
67.5°	3303.9	3516.2	4438.5	7295.7	8568.8	8507.6	8571.3	8219.7	8341.2	8043.9
70°	2284.7	2394.2	2994.7	6838.7	9072.4	9886.9	9885.2	9357.8	9122.5	8326.7
72.5°	1536.4	1593.3	1944.9	5425.5	8702.1	10706.5	10657.3	10227.5	9385.8	7787.4
75°	648.0	689.6	900.3	3049.1	6884.6	9795.2	9661.9	9038.5	8339.5	6132.1
77.5°	205.5	223.4	355.0	1091.4	3792.2	7362.7	7221.8	5644.6	5589.4	3076.2
80°	97.7	113.8	199.6	438.2	1492.3	4004.5	3985.0	2560.7	2404.4	830.6
82.5°	42.5	50.1	110.4	234.4	667.6	1428.6	1457.4	871.4	721.1	315.1
85°	13.6	17.8	51.0	107.9	282.0	355.0	350.8	207.2	290.5	171.6
87.5°	0.0	0.0	17.0	24.6	28.9	20.4	22.9	17.8	80.7	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949301
 CATALOG NUMBER: GALN-SB4A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1363.2	0°	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2
1380.1	2.5°	1370.0	1356.4	1332.6	1310.5	1291.0	1271.4	1259.5	1242.6	1240.9	1240.9
1402.2	5°	1379.3	1357.2	1314.7	1269.7	1217.9	1168.7	1119.4	1071.8	1056.6	1045.5
1437.9	7.5°	1406.5	1371.7	1304.6	1218.8	1120.3	1012.4	936.8	855.3	823.8	806.9
1485.5	10°	1445.5	1398.0	1296.1	1145.7	986.1	839.1	731.3	642.9	609.0	594.5
1537.3	12.5°	1488.9	1430.3	1280.8	1054.9	839.1	663.3	558.0	517.2	512.1	512.1
1599.3	15°	1540.7	1469.3	1254.4	947.8	685.4	524.9	487.5	489.2	494.3	497.7
1659.6	17.5°	1594.2	1510.9	1212.8	828.1	549.5	472.2	473.1	475.6	479.9	483.3
1725.0	20°	1651.9	1552.6	1157.6	700.7	471.4	456.9	459.5	462.0	465.4	467.1
1786.1	22.5°	1713.9	1591.6	1092.2	575.8	445.0	444.2	445.0	447.6	451.8	451.8
1857.5	25°	1780.2	1634.9	1017.5	485.0	431.5	431.5	433.2	434.9	438.2	438.2
1926.3	27.5°	1848.1	1674.9	938.5	437.4	419.6	418.7	418.7	421.3	423.0	423.8
1994.2	30°	1922.9	1721.6	859.5	427.2	410.2	406.0	403.4	405.1	406.8	407.7
2065.5	32.5°	1999.3	1766.6	789.0	431.5	400.9	393.2	384.7	383.0	383.0	386.4
2139.4	35°	2084.2	1815.8	734.7	445.9	395.8	374.5	361.0	353.3	354.2	359.3
2227.8	37.5°	2186.1	1875.3	694.7	458.6	392.4	353.3	331.2	321.9	315.9	321.9
2349.2	40°	2319.5	1962.8	665.9	468.8	388.1	328.7	299.0	283.7	272.6	276.0
2537.8	42.5°	2515.7	2100.4	654.8	469.7	378.8	299.8	265.8	245.5	229.3	230.2
2821.4	45°	2790.9	2317.8	711.7	458.6	358.4	268.4	231.0	203.8	193.6	191.1
3245.2	47.5°	3168.0	2634.6	843.4	435.7	328.7	237.8	197.0	174.1	166.5	162.2
3801.6	50°	3673.3	3041.4	989.5	410.2	299.0	208.9	169.0	154.6	149.5	145.2
4461.5	52.5°	4259.3	3454.2	1109.2	384.7	269.2	183.5	151.2	142.7	138.4	135.0
5098.5	55°	4797.0	3738.7	1102.4	357.6	240.4	163.1	138.4	133.3	128.2	124.8
5647.1	57.5°	5131.6	3778.6	908.8	327.8	207.2	146.9	126.5	123.2	117.2	113.0
6121.9	60°	5285.3	3551.0	637.0	288.8	174.1	131.6	113.8	112.1	104.5	98.5
6571.2	62.5°	5313.3	3128.0	424.7	240.4	145.2	117.2	101.1	98.5	88.3	78.1
6936.4	65°	5199.5	2523.3	293.9	187.7	124.0	101.9	86.6	81.5	70.5	60.3
7023.0	67.5°	4839.4	1771.7	204.7	135.0	105.3	80.7	68.8	67.1	58.6	50.1
6581.4	70°	4179.5	1009.8	136.7	101.1	83.2	55.2	54.4	56.1	47.6	40.8
5377.0	72.5°	3204.5	462.0	84.9	73.9	56.9	37.4	43.3	44.2	36.5	30.6
3354.8	75°	1886.3	197.9	53.5	47.6	28.9	24.6	31.4	32.3	24.6	19.5
1226.4	77.5°	642.1	74.7	34.0	28.0	14.4	13.6	20.4	20.4	13.6	7.6
246.3	80°	146.1	28.0	17.0	11.0	6.8	5.9	6.8	5.9	3.4	0.8
75.6	82.5°	41.6	11.0	6.8	4.2	2.5	2.5	0.8	0.0	0.0	0.0
26.3	85°	11.9	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.3	87.5°	5.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1363.2
1245.1
1050.6
809.4
594.5
512.1
497.7
483.3
468.0
453.5
439.1
424.7
409.4
389.0
361.8
320.2
274.3
226.8
187.7
159.7
144.4
134.2
123.2
112.1
96.8
73.0
56.9
47.6
37.4
27.2
17.0
5.9
0.0
0.0
0.0
0.0
0.0

F REPORT)